

ABSTRACT

A media storage device and method for fabricating said device is provided. The device comprises a data layer capable of storing and erasing data via application of an energy beam, such as a near field optical non diffraction limited beam or electron beam.

- 5 A separate capping layer is deposited on the data layer. The separate capping layer is relatively transparent to the energy beam and may be formed from various materials, including but not limited to an epitaxial material, a conducting material, and a robust high melting point material, such as Molybdenum.